

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER

62938-013 (RSGK-3)

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

JC18 Rec'd PCT/PTO 23 OCT 2001

INTERNATIONAL APPLICATION NO.

PCT/EP00/05624

INTERNATIONAL FILING DATE

June 19, 2000

PRIORITY DATE CLAIMED

August 2, 1999

TITLE OF INVENTION

SYSTEM FOR THE COMMON OPERATION OF DIGITAL RADIO DEVICES ADJUSTABLE ACCORDING TO
DIFFERENT WAVEFORMS

APPLICANT(S) FOR DO/EO/US

Peter Iselt

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
 - a. ☒ is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ has been transmitted by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☒ A copy of the International Search Report (PCT/ISA/210).
8. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ have been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
9. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
10. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
11. ☒ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

Items 13 to 20 below concern document(s) or information included:

13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☐ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A change of power of attorney and/or address letter.
19. ☒ Certificate of Mailing by Express Mail
20. ☐ Other items or information:

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

INTERNATIONAL APPLICATION NO.

ATTORNEY'S DOCKET NUMBER

097980915**PCT/EP00/05624****62938-013 (RSGK-3)**

21. The following fees are submitted:

BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) :

- ☐ Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO **\$970.00**
- ☒ International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO **\$840.00**
- ☐ International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO **\$690.00**
- ☐ International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4) **\$670.00**
- ☐ International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4) **\$96.00**

ENTER APPROPRIATE BASIC FEE AMOUNT =**\$890.00**

Surcharge of **\$130.00** for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492 (e)). ☐ 20 ☐ 30

\$0.00

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	
Total claims	3 - 20 =	0	x \$18.00	\$0.00
Independent claims	1 - 3 =	0	x \$84.00	\$0.00
Multiple Dependent Claims (check if applicable) <input checked="" type="checkbox"/>				\$280.00
TOTAL OF ABOVE CALCULATIONS =				\$1,170.00

Reduction of 1/2 for filing by small entity, if applicable. Verified Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28) (check if applicable). ☐

\$0.00**SUBTOTAL =****\$1,170.00**

Processing fee of **\$130.00** for furnishing the English translation later than months from the earliest claimed priority date (37 CFR 1.492 (f)). ☐ 20 ☐ 30 +

\$0.00**TOTAL NATIONAL FEE =****\$1,170.00**

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable). ☐

\$0.00**TOTAL FEES ENCLOSED =****\$1,170.00**

Amount to be:
refunded **\$**
charged **\$**

☒ A check in the amount of **\$1,170.00** to cover the above fees is enclosed.

☐ Please charge my Deposit Account No. _____ in the amount of _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.

☒ The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. **50-1133** A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

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SIGNATURE

Toby H. Kusmer

NAME

26,418

REGISTRATION NUMBER

October 23, 2001

DATE

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least at certain times and makes possible information exchange between the three initially separate radio systems exists between these three different radio systems G, F and US.

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If the three radio systems are now to make contact with one another, for example for tactical reasons, and this is desired, for example, by the German radio system G as managing unit, the command that said radio systems F and US should also be converted to the waveform WFG is transmitted via the common radio connection WFB from the unit G acting as centre to the two other radio systems F and US.

For this purpose, the software for the waveform WFG is transmitted to the participants in the radio systems F and US via the common radio connection WFB.

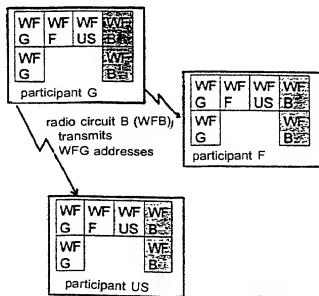
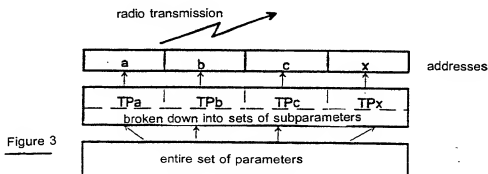
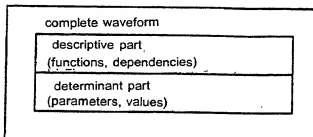
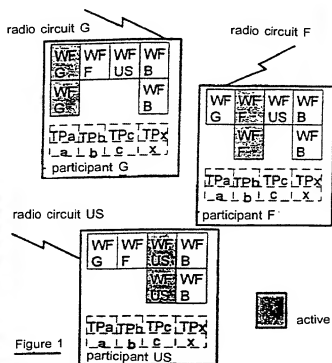
Since the transmission of the entire software determining the waveform WFG would take several hours, the software determining the waveform WFG is divided, in accordance with Figure 2, into two subpackets, namely a descriptive part and a determinant part. The descriptive part comprises the functions and dependencies of the respective parameters of the waveform, whereas the determinant part comprises the actual parameters and their values. The descriptive part is stored completely in the radio appliance and is part of the operating software for the radio appliance. The sets of parameters of the determinant part for the various possible waveforms are each divided, in accordance with Figure 3, into sets of subparameters to which appropriate addresses are assigned. A set of parameters for a specific waveform, for example WFG, may comprise, for example, one hundred individual parameters or more. All these sets of parameters for the various waveforms are divided into sets of subparameters TPa, TPb, TPc ...TPx and, specifically, such individual parameters are combined in each case to form sets of subparameters so that said sets of parameters can

each be used for a plurality of entire sets of parameters of different waveforms. Each of said sets of subparameters TPa to TPx is assigned in each case an address a, b to x. Said sets of subparameters with the addresses assigned to them are stored in all the radio appliances of the various radio systems G, F and US and, specifically, together with the associated descriptive part of the software in each case.

- 10 If a reprogramming of the radio appliances of all three radio systems G, F and US to the waveform WFG is now required via the radio system G acting as centre in the context of the above example, there are transmitted via the radio connection WFB, in accordance with Figure 4 only the
15 addresses whose associated sets of subparameters yield, when combined, the set of parameters that, together with the descriptive part of the software, corresponds to the waveform WFG. Said sets of subparameters are read out of the associated memories of the appliances of the systems F
20 and US and the appropriate appliances are thus adjusted to the common waveform WFG in the shortest time so that the three radio systems G, F and US can communicate with one another via WFG.
- 25 The transmission of only addresses via the connection WFB can take place very reliably and error-free, optionally also in encrypted form, so that faulty operations are avoided.

New Claims

1. System for operating digital radio appliances that can be adjusted to various waveforms, wherein the waveform is the signal occurring at the transition from the radio appliance to the radio link at the output of the antenna and that is determined by a multiplicity of parameters, such as frequency, type of modulation, power, signal shape, etc., having a common waveform set by a centre, in which system the waveforms of the radio appliances can be adjusted by sets of parameters inputted as software, characterized in that the sets of parameters of the various waveforms are subdivided into a plurality of sets of subparameters (TPa to TPx) to each of which an address (a, b, c to x) is assigned, the associated sets of subparameters are each stored in the digital radio appliances (G, F, US) to be operated jointly under said addresses and, to adjust to a common waveform (for example, WFG), only the addresses of the subparameters necessary for the chosen waveform are transmitted by the centre (for example, G) via a radio connection (WFB) common to all the radio appliances and are read out therein as the total set of parameters determining the chosen waveform.
2. System according to Claim 1, characterized in that the software determining the various waveforms is divided into a part describing the functions and dependencies of the parameters and a determining part comprising the actual parameters, the describing part of the software is stored in each of the radio appliances and only the determining part of the software is subdivided into sets of subparameters that can be retrieved through addresses by radio so that the waveform-specific software is formed in



Docket No.
62938-013 (RSGK-3)

Declaration and Power of Attorney For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

SYSTEM FOR THE COMMON OPERATION OF DIGITAL RADIO DEVICES ADJUSTABLE ACCORDING TO DIFFERENT WAVEFORMS

the specification of which

(check one)

☐ is attached hereto.

☒ was filed on October 23, 2001 as United States Application No. or PCT International Application Number 09/980,915 and was amended on _____

(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

19936309.9

Germany

August 2, 1999

☐

(Number)

(Country)

(Day/Month/Year Filed)

☐

(Number)

(Country)

(Day/Month/Year Filed)

☐

(Number)

(Country)

(Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

PCT/EP00/05624

June 19, 2000

Pending

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

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